

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	06/30/2000		FIRST NAMED INVENTOR	ATTORNEY D	OCKET NO.	CONFIRMATION NO		
09/609,178			Robert J. Deri	IL-10	IL-10504			
7	590	04/23/2002						
L E Carnahan					EXAMINER			
Agent PO Box 808 L-703					WOOD, KEVIN S			
Livermore, CA	94551	REC'D A	MAY 01 2002	ART U	NIT	PAPER NUMBER		
		WEOD WILL OI SOUS		28	74			

DATE MAILED: 04/23/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

APR - 8 2005 TECHNOLOGY CENTER 2800

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		Application	n No.	Applicant(s)	7	
	0.00	09/609,178	3	DERI ET AL.		
	Office Action Summary	Examiner		Art Unit		
		Kevin S Wo		2874		
Period fo	The MAILING DATE of this communication app or Reply	ears on the	cover sheet with th	e correspondence add	dress	
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nasions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no even within the statut will apply and will cause the applic	or, however, may a reply be ory minimum of thirty (30) expire SIX (6) MONTHS fr ation to become ABANDO	timely filed days will be considered timely om the mailing date of this co NED (35 U.S.C. § 133).		
1)🛛	Responsive to communication(s) filed on 11 M	March 2002				
2a) <u></u> ☐	This action is FINAL. 2b)⊠ Thi	is action is r	ion-final.			
3)□ Dispositi	Since this application is in condition for allowa closed in accordance with the practice under ton of Claims				e merits is	
4)⊠	Claim(s) 1-20 is/are pending in the application					
	4a) Of the above claim(s) is/are withdraw	vn from con:	sideration.			
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-3,5-6, 15-17, 19-20</u> is/are rejected.					
7)	Claim(s) 4,7-14 and 18 is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election red	quirement.			
-	on Papers					
9) 🔲 🗆	The specification is objected to by the Examiner	r. ·				
10) 🔲 🏾	The drawing(s) filed on is/are: a)□ accep	ted or b) 🗌 o	bjected to by the E	kaminer.		
	Applicant may not request that any objection to the	drawing(s) b	e held in abeyance.	See 37 CFR 1.85(a).		
11)🛛 🗆	The proposed drawing correction filed on <u>11 De</u>	cember 200	<u>1</u> is: a)⊠ approve	d b)□ disapproved b	y the Examiner.	
	If approved, corrected drawings are required in rep	ly to this Offic	ce action.	·		
12)[] 1	The oath or declaration is objected to by the Exa	aminer.				
Priority u	nder 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for foreign	priority und	er 35 U.S.C. § 119	(a)-(d) or (f).		
a)[☐ All b) ☐ Some * c) ☐ None of:					
	1. Certified copies of the priority documents	have been	received.			
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the prior application from the International Bure the attached detailed Office action for a list of	eau (PCT R	lule 17.2(a)).		Stage	
14)∏ A	cknowledgment is made of a claim for domestic	priority und	ler 35 U.S.C. § 11	9(e) (to a provisional	application).	
•	☐ The translation of the foreign language production.cknowledgment is made of a claim for domestic	• •				
Attachment	(s)					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)		·	ary (PTO-413) Paper No(sal Patent Application (PTC		
S. Patent and Tra		ion Summary	Briz	in Healy Bart of	Paner No. 7	

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DETAILED ACTION

Response to Amendment

- 1. This action is responsive to amendment B filed 3/11/02. Claims 1-20 are pending in the application. Amendment B has not been entered.
- 2. Based on the applicants amendment, the rejections of claims 1, 10 and 13 under 35 U.S.C 112 are withdrawn.
- 3. Based on the discovery of new art, the examiner has reconsidered the finality of the rejection of the last Office action, therefore, the finality of that action is withdrawn.

Response to Arguments

4. Applicant's arguments have been fully considered, but are not persuasive. The applicant's primary argument is that the allowable material from claims 5 and 19, have been added to independent claims 1 and 16 respectively, making them allowable over the prior art.

The applicant states that claim 5 was indicated as allowed in the last Office action. This claim was rejected under 35 U.S.C. 102 on page 5 of the Office Action and was also indicated as rejected on the Office Action Summary form (PTO-326). On page 6 of the last Office Action, claim 5 was also mistakenly listed as being objected to, but allowable if rewritten in independent form including all of the limitations of the base claim. This indication of allowability was a typographical error. The examiner regrets any inconvenience that this error may have caused.

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The applicant argues that claim 16 is now allowable over the prior art, after being amended to include the limitations of claim 19. Claim 19 was indicated as being allowable if rewritten in independent form including all of the limitations of the base claim in the last Office Action. However, the examiner has discovered new art discloses all of the limitations of claim 19.

Allowable Subject Matter

- 5. The indicated allowability of claims 6, 19 and 20 is withdrawn in view of the newly discovered reference(s) to Fukushima. Rejections based on the newly cited reference(s) follow.
- 6. Claims 4, 7-14, and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application

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being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

8. Claims 1-3, 5, and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,243,178 to Suemura et al.

Referring to Claim 1, Suemura et al. discloses all of the limitations of the claimed invention in Fig. 4-7. Fig. 6 discloses a multiplexer that includes a diffraction grating (105), Fig. 7 discloses a demultiplexer that includes a diffraction grating (117), Fig. 4 and 5 disclose the combination of the multiplexer and demultiplexer where there are N inputs, N outputs, and N wavelengths.

Referring to Claim 2, Suemura et al. discloses all of the limitations of the claimed invention. The diffraction grating in the demultiplexer is augmented by a multiplexer, which a directional coupler. The diffraction grating in the multiplexer is augmented by the demultiplexer, which is a wavelength selective device.

Referring to Claim 3, Suemura et al. discloses all of the limitations of the claimed invention. The multiplexer and demultiplexer are directional couplers.

Referring to Claim 5, Suemura et al. discloses all of the limitations of the claimed invention. The diffraction grating in the demultiplexer receives the outputs from the diffraction grating in the multiplexer.

Referring to Claim 15, Suemura et al. discloses a coupler (109) for combining the outputs of the multiplexer's diffraction grating.

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9. Claims 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,208,692 to McMahon.

Referring to Claim 16, McMahon discloses all the limitations of the claimed invention. See Fig. 6, 7B, and 7C.

Referring to Claim 17, McMahon discloses all the limitations of the claimed invention. The Littrow Mount transmultiplexer in Fig. 7B is a directional coupler.

10. Claims 6, 19 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 5,805,759 to Fukushima.

Referring to claim 6, Fukushima discloses all of the limitations of the claimed invention. Fukushima discloses a wavelength router comprising: at least one diffraction grating (22) which utilizes only N wavelengths to interconnect N inputs to N outputs in a fully non-blocking manner, a second diffraction grating (24) positioned to receive outputs from the first mentioned diffraction grating. The gratings (22,24) have the same diffraction constant, therefore the grating can be considered to be identical. See Fig. 4 and the respective portion of the specification.

Referring to claim 19, Fukushima discloses all of the limitations of the claimed invention. Fukushima discloses a wavelength router including: at least one diffraction grating (20) for receiving a number of inputs and for discharging a greater number of outputs, and means including a second grating (26) for combining at least a portion of the outputs. See Fig. 4, along with the respective portion of the specification.

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Referring to claim 20, Fukushima discloses all of the limitations of the claimed invention. Fukushima discloses a wavelength router including assemblies operatively connected to the diffraction gratings. Fukushima discloses re-direction optics (22,24) and collection optics (30,18). See Fig. 4, along with the respective portion of the specification.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin S Wood whose telephone number is (703) 605-5296. The examiner can normally be reached on Monday-Thursday (7am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney B Bovernick can be reached on (703) 308-4819. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 307-0956.

Brian Healy Primary Examine

in Her

KSW April 11, 2002



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Quality Assurance Specialists:

Don Hajec.....703-308-4075

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If the contents of the attached correspondence have any clerical omissions, e.g., missing references or pages, illegible text, or any other similar errors, please contact us at the number below. We will take appropriate action to expedite the necessary corrections. Also, if you have general questions concerning any application assigned to Technology Center 2800, please contact our Customer Service Center. Questions concerning the merits of the application must be directed to the Examiner in charge of the particular application, then to the supervisor if appropriate.

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Directors, Technology Center 2800 Semi-conductors, Electrical, Optical Systems & Components

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